

GEIA Vision Conference

The Road Ahead

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“We have a window of opportunity while this great Army’s in motion and while we’re learning and fighting this Global War on Terrorism to get the Army right. Not only for the fight in Iraq and Afghanistan, but for the Future.”

GEN Richard A. Cody
Vice chief reports Army status at Defense Forum
Army News (21 Sep 04)



Why are we transforming?



“The Army, together with the joint community, must relentlessly address the architectures, protocols, and systems of a redundant, non-terrestrial network capable of providing the focused base necessary to mobile Battle Command and



“The lesson of this War is that effectiveness in combat will depend heavily on jointness - that is, the ability of different branches of our Military to communicate and coordinate efforts



Secretary of Defense Donald Rumsfeld

Acting Secretary of the Army/Army Chief of Staff White Paper
<http://www.carlisle.army.mil/usawc/parameters/04summer/schoolmak.htm>

“.....immediate needs may overweigh protection of the program of record.....
shift resource risk away from fighting
Soldiers.”

“... the norm will be short-notice operations, extremely austere theaters of operation, and incomplete information. . . .”

“...streamlined modular organizations...
link to Home Station Operation Centers to
minimize forward footprints; ... network-enabled organizations
capable of commanding or supporting joint



CJCS Priorities



■ Win the War on Terrorism

- Achieve enduring victory in Iraq and Afghanistan
- Globally disrupt and defeat terrorist networks
- Prevent terrorist acquisition and use of WMD/E
- Create and sustain a global anti-terrorism environment

■ Enhance Joint Warfighting

- Further develop trust and confidence between Services through training, education and exercises
- Improve integration between interagency and multinational partners
- Eliminate gaps and seams among combatant commands and coalition partners

■ Transform the Force

- Develop new force employment concepts – new ways to use the force
- Integrate new warfighting capabilities – rapid prototyping and fielding



U.S. ARMY

CSA Strategic Guidance



- **The Soldier**: Flexible, adaptive and competent
- **The Bench**: Prepare future Generation of senior leaders.
- **Combat Training Center/BCTP**: Joint Centric and an “Engine of Change”
- **Leader Development and Education**: Three domains; Operational, Institutional and Self-Development
- **Army Aviation**: Modular, capabilities based, Joint Capable
- **Current to Future Force**: Forces organized and equipped for full Spectrum operations
- **Network**: Leverage and enable interdependent, network centric warfare
- **Modularity**: Brigade Combat Teams as the basic maneuver module for Army forces
- **Joint and Expeditionary Mindset**: Capabilities based Army supporting Combatant Commanders
- **AC/RC Balance**: Correct AC/RC mix across the full strategy and force-sizing construct
- **Force Stabilization**: Unit Focused Stability and Home-basing
- **Actionable Intelligence**: Intelligence able to influence current and future operations
- **Installations as Our Flagships**: Power Projection Platforms with superior reach-back
- **Authorities, Responsibilities and Accountability**: Clarity and accountability
- **Resource Processes**: Flexible, responsive and accelerated



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Joint Systems



Joint Tactical Radio System

Current Systems
(25-30 Families)
(750, 000 Radios)

Common Open Standards Architecture & Technology Base

Joint Solution
(1 Family)

Navigation
AN/PSQ-6A EPLRS

Positioning
AN/ARC-210

Location
AN/ARC-210

Identification
AN/ARC-210A SINCGARS

Air to Ground
AN/ARC-210A SINCGARS

Air to Air
AN/ARC-210A SINCGARS

Ground to Ground
AN/ARC-210A SINCGARS

SATCOM
AN/PSQ-6

Legacy Waveforms
Commercial Waveforms
New Military Waveforms



JTRS – A Family of Common Radios and Waveforms
Built Around a Standard Open Architecture

Joint Common Missile

Capabilities

- Adverse weather
- Fire and forget
- Precision strike
- Beyond line of sight or LOS
- Platform survivability through standoff
- Potential for ground- and ship-launch
- Air-to-ground missile
- Multi-platform: fixed and rotary wing
- Multi-targets: armor, MOUT, watercraft, light materiel
- Countermeasure resistant



Seeker/Guidance Electronics

- Multi-mode Guidance
- Mid Wave Infrared
- Millimeter Wave
- Laser
- Inertial Navigation
- Software Integration

Warhead

- Compact Warhead Technology
- Tandem Integration
- Multipurpose (Armor/Military Operations Urban Terrain)
- Insensitive Munitions

Propulsion

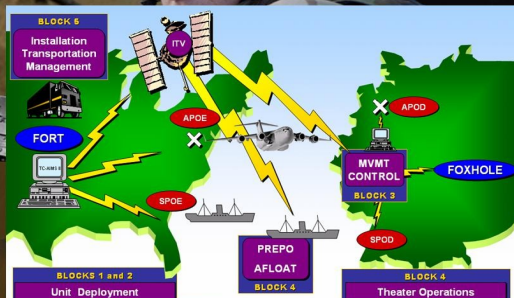
- Solid Propulsion
- Boost-Sustain
- Insensitive Munitions
- Range 16k RW/ 28k FW

TC AIMS II

Transportation Coordinators' Automated Information for Movements System II

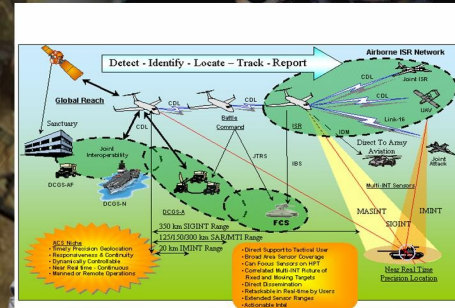


- Supports Joint Movement
- Provides ITV Source Data
- Controls Theater Movement
- Net Centric



Aerial Common Sensor

- Joint Army/Navy Future Force aerial ISR system
- Global Responsiveness –
 - Strategically Deployable in 72 hours,
 - Fully Mission Configured, Ready to Fight
- Manned / Unmanned Teaming
- Operate Extended Period of Time –
 - On-Station Endurance - 8+ Hours;
 - OPTEMPO - 24/7 for 30 days;
 - Continuous Coverage



Will Provide Persistent and Wide Area Coverage of the Battlespace



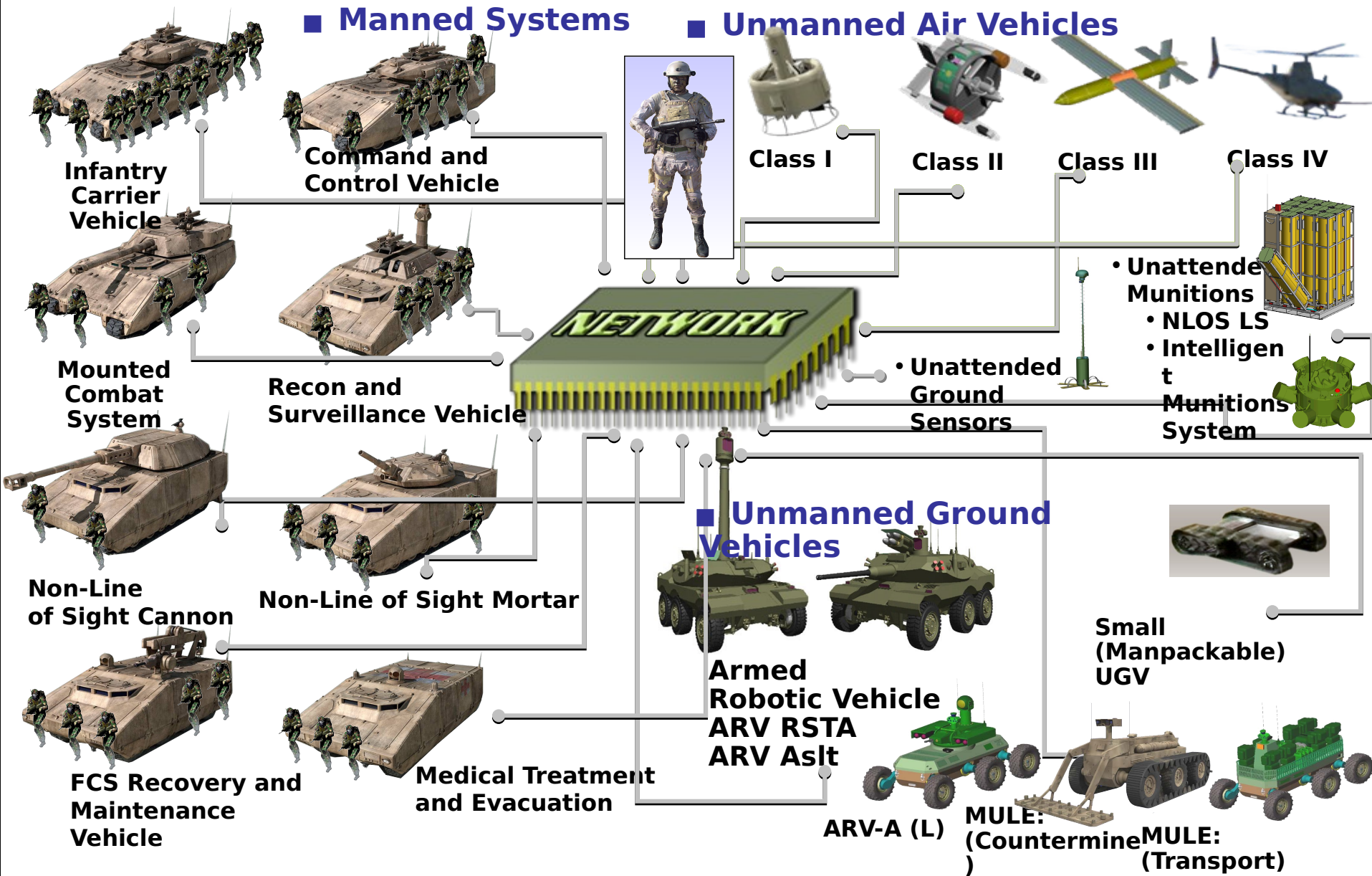
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Future Combat Systems



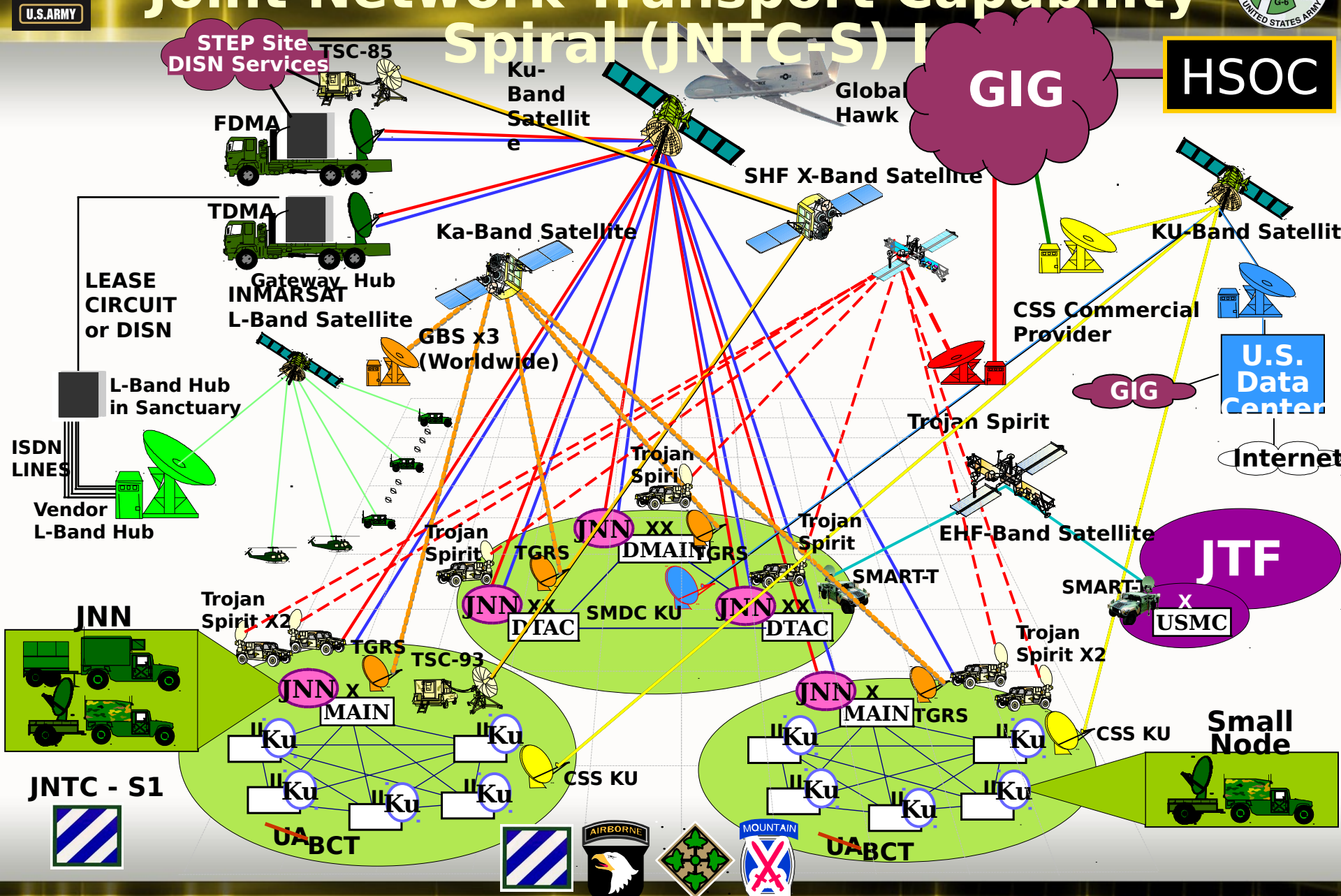
■ Manned Systems

■ Unmanned Air Vehicles





Joint Network Transport Capability- Spiral (JNTC-S) I

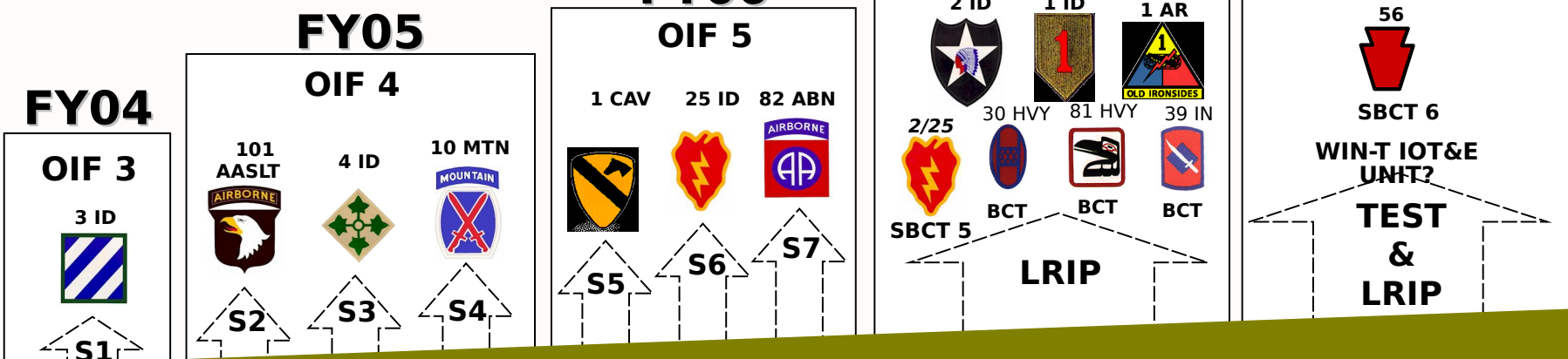


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Our Army At War - Relevant and Ready



Spiraling Forward WIN-T Capabilities



Joint Network Node (JNN) Capability **WIN-T (-) Capability**

WIN-T Enhanced Capability

Army \$802M Reprogramming
• SINCGARS
• Up-Armor Kits
• Warlock
• JNN - \$247M
Reprogramming (\$247M) & Supplemental

Supplemental

Army POM & "Supplemental"

WIN-T Upgrade
Reset OIF 3 - 5
Army POM & "Supplemental"

FCS Spiral 1



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Provide Relevant and Ready Land Power Capability to the Combatant Commander as Part of the Joint Team